DOCUMENT RESUME

ED 401 147 SE 059 265

AUTHOR Mayfield, Karen; Whitlow, Robert
TITLE EQUALS Investigations: Flea-Sized Surgeons.
INSTITUTION California Univ., Berkeley. Lawrence Hall of Science.
SPONS AGENCY National Science Foundation, Arlington, VA.
REPORT NO ISBN-0-912511-25-7
PUB DATE 94
CONTRACT MDR-8850720
NOTE 124p.
AVAILABLE FROM EQUALS, University of California, Lawrence Hall of Science, Berkeley, CA 94720.
PUB TYPE Guides - Classroom Use - Teaching Guides (For Teacher) (052)

EDRS PRICE Document Not Available from EDRS.
DESCRIPTORS Area; Females; Interdisciplinary Approach; Intermediate Grades; *Investigations; Junior High Schools; *Mathematical Concepts; *Mathematics Instruction; Middle Schools; *Minority Groups; Problem Solving; *Sex Differences; Teacher Education; Volume (Mathematics); Weight (Mass)
IDENTIFIERS Gender Issues

ABSTRACT

EQUALS is a teacher education program that helps elementary and secondary educators acquire methods and materials to attract minority and female students to mathematics. It supports a problem-solving approach to mathematics which has students working in groups, uses active assessment methods, and incorporates a broad mathematics curriculum presented in a variety of contexts. This document is one of a set of five Investigations Units and provides an opportunity for middle school students to acquire some understanding of mathematical concepts related to scale, surface area, volume, and weight. Investigations include: (1) Flea-sized Surgeons Skit; (2) Weight and Surface Area; (3) Surface Area and Volume; (4) Scaling Up To Double Size; (5) Scaling Up Beyond Double Size; (6) Non-Integer Volume and Area; (7) Non-Integer Scale Factors; (8) Shrinking a Real Animal; and (9) Sharing Projects Seminar. Also included are Spanish translations of selected student worksheets and a list of resources. (JRH)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****